

HORAK, ZDENEK

Category: Czechoslovakia / Physical Chemistry - Atom

B-3

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29518

Author : Horak Zdenek

Inst : not given

Title : Non-Diagram Lines in X-Ray Spectrum

Orig Pub: Ceskosl. casop. fys., 1956, 6, No 5, 562-571

Abstract: no abstract

Card : 1/1

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Horak, Z.

First atomic power plant in the USSR. p. 276. ELEKTROTECHNICKY
OBZOR. (Ministerstvo strojirenstvi a Ministerstvo paliv a
energetiky) Praha. Vol. 45, no. 6, June 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

HORAK, Z.

Modern synchrotrons. p. 496.
(Elektrotechnicky Obzor, Vol. 45, no. 10, October 1956. Czechoslovakia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 6,
June 1957. Uncl.

AUTHOR: Horak, ZDENĚK

CZECH/37-58-6-17/30

TITLE: Analytical Wave Functions of the K Shell of Neon
(Analytické vlnové funkce stavu K neonu)

PERIODICAL: Československý Časopis Pro Fysiku, 1958, Nr 6,
p 734 (Czech)

ABSTRACT: In an earlier paper (Ref 1), the author pointed out the possibility of calculating analytical wave functions of X-ray shell of light atoms on the basis of "extremalisation". In the same paper, a wave function of the K shell of neon was sought in the form of a determinant of the function composed of arbitrary functions proposed by Morse et al. (Ref 2). However, for simplifying the calculations, the parameter $b = 1$ was chosen in the resulting function. This assumption can be dispensed with without complicating appreciably the calculations by using the tables for the variational determination of atomic wave functions published by Morse and Yilmaz (Ref 3), which were not available to the author at the time of writing the earlier work (Ref 1). The calculation procedure and the results obtained by means of these tables will be briefly described.

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Analytical Wave Functions of the K Shell of Neon

When using the method of Morse et al. (Ref 2), the approximation of the energy of the sought state is represented by the extreme value (the minimum in the given case) of the function :

$$E = E(a, b, c) = - \frac{v^2}{4T} \quad (\text{see Ref 2}),$$

the values of which can be easily calculated by means of the tables (Ref 3) in the case of equidistant values of the parameters a , b , c . According to the rules for determining the approximate values of the parameters a , b , c (see Ref 2, Eq 4), the sought minimum is in the neighbourhood of $a_0 = 2.9$, $b_0 = 2.5$, $c_0 = 1.014$. By parabolic (3-point) interpolation of 27 values of the function E for the near points a_0 , b_0 , c_0 , the minimum $E_3 = - 192.1168$ (expressed in Rydberg units of 1 Ry = 13.595 eV), whereby $a = 3.10$, $b = 2.69$, $c = 1.042$. Direct calculation for these

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CZECH/37-58-6-17/30

Analytical Wave Functions of the K Shell of Neon

values of the parameters yields:
 $E(3.10; 2.69; 1.042) = -192.1117$. Of 64 functional values, a 4-point interpolation is obtained:
 $E_4 = -192.1112$ for $a = 3.10$, $b = 2.71$, $c = 1.043$

Direct calculation yields $E(3.10; 2.71; 1.043) = -192.1120$. A survey of the results on the approximation of the K shell of neon is given in the table herewith:

Table 1

Extreme Value for	$E(a,b,c)$	E_K	$a\mu$	$b\mu$	2μ	$2\mu c$	$\frac{E-E_K}{K^2} \sqrt{\frac{R(K\alpha)}{E}}$
a	b	c					
2.9	1*	1*	-191.442	10.129	3.493	6.986	6.986 63.307 63.37
2.65	1*	0.89	-191.688	10.104	3.813	7.625	6.787 63.061 63.12
3.10	2.71	1.043	-192.112	10.038	8.775	6.476	6.755 62.637 62.71

Experimental value $\sqrt{R(K\alpha)}$ (According to Moore et al (Ref 4) this value is multiplied by the factor 0.998)

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Analytical Wave Functions of the K Shell of Neon

-) Same (compared with earlier work, Ref 1),
-) $E_L = - 254.749$ according to Tubis (Ref 5),
- †) $E_K - E_L$ relativistically corrected yields the calculated value $\sqrt{R(K\alpha)}$ (compared with earlier work (Ref 1).

This is a complete translation.

There are 1 table and 5 references, 1 of which is Czech and 4 English.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of Technical Physics, Czech Ac.Sc., Prague)

SUBMITTED: June 27, 1958

Card 4/4

CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the Atom D-1

Abs Jour : Rof Zhur - Fizika, No 12, 1958, No 27156

Author : Horak Zdenek

Inst : Not Given

Title : Calculation of Excited States of Atoms.

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 2, 158-170

Abstract : No abstract

Card : 1/1

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Analytic wave functions of the X-state of neon.
Horák (Czechoslov. Acad. Sci., Prague). Czechoslovak
Phys. 8, 745(1958)(in English).—Very good agreement is
obtained when the energy state is detd. either by the direct
(Tables for the Variational Determination of Atomic Wave
Functions, Cambridge, M.I.T. Press, 1956). A.N.

HORAK, Z.

TECHNOLOGY

PERIODICAL: ELEKTROTECHNICKY OBZOR. VOL. 47, no. 8, Aug. 1958

Horak, Z. Thermonuclear energy. p. 394.

Monthly List of East European Accessions (EEAL), LC, Vol. 8, no.5,
May 1959, Unclass.

CZECHOSLOVAKIA/Optics - General

K-1

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 28480

Author : Horak Zdonek, Malkovska Marie

Inst : Not Given

Title : Fifth Conference of the German Physical Society on Problems
of Spectroscopy

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 2, 276

Abstract : No abstract

Card : 1/1

CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the Atom D-2

Abs Jour : Ref Zhur- Fizika, No 5, 1959, No 10294

Author : Horak Zdenek

Inst : Czechoslovak Academy of Sciences, Prague, Czechoslovakia

Title : Calculations of the Excited States of Atoms

Orig Pub : Cheskosl. fiz. zh., 1958, 8, No 3, 271-277

Abstract : It is noted that approximate methods yield calculations for multi-electron atoms that are almost as good as those obtained by stricter, but more laborious methods. Therefore, to find the energy of the excited states of multi-electron atoms, it is proposed to use a variational method with selection of a class of functions starting with the requirement that the variation of the functional satisfy the condition of stationary energy (and not the absolute minimum). By way of an example the author calculates the energies of the $1s2s^1S$ states of helium and the typically x-ray K level -- the energy of state of $1s (2s)^2 (2p)^6$ of 20 neon. The results are in satisfactory agreement with experiment and are only

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Inst. Tech Phys, Prague

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CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the Atom D-2

Abs Jour : Ref Zhur - Fizika, No 5, 1959, No 10294

slightly poorer than the results of more rigorous computation methods. -- V. Bat"gin

Card : 2/2

HORAK, Zdenek (Praha)

New methods of measurement of time dilatation, Pokroky mat fyz astr
6 no.6:304-314 '61.

HORAK, Zdenek

The tasks and goals of physics in planning the development of
technical schools. Pokroky mat fyz astr 6 no.1:24-29 '61.

1. Ceske vysoka ucení technicke, Praha.

HORAK, Zdenek, prof., dr.

Planimeters as nonholonomic mechanical systems. Aplikace mat 7 no.4:282-
291 '62.

1. Katedra fysiky strojní fakulty, Česke vysoké učení technické,
Praha 2, Karlovo náměstí 13.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7

HORAK, Zdenek

Commemorating the 70th birthday of professor Jaroslav Kucera.
Aplikace mat 7 no.6:470-472 '62.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7"

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7

HORAK, Zdenek, prof., RNDr., doktor fysikalne matematickych vied.

Electromagnetic and gravitational field. El tech obzor 51 no.10:505-
508 O '62.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7"

HORAK, Z.

Distant cosmic matter and relativity. Biul astr Cs 14 no.3:117-
118 '63.

1. Technical University, Prague.

HORAK, Z.

Cosmic potential, a fundamental physical constant.
Biul astr Cz 14 no.4:119-123 '63.

Z/017/63/052/004/001/002
E083/E120

AUTHOR: Horák, Zdeněk. Professor, Doctor of Physico-mathematical Sciences

TITLE: Velocity of electromagnetic waves and the gravitational potential of the cosmos

PERIODICAL: Elektrotechnický obzor, v.52, no.4, 1963, 157-162

TEXT: For explaining the inertia forces the author shows the necessity of introducing the influence not only of our galaxy, but also that of the other galaxies in the Universe. If χ_{∞} denotes the potential of this system, then

$$\chi_{\infty} = -c^2 \quad (1)$$

where c is the velocity of light. This assumption leads to the Lorentz transformation and all the results of the special theory of relativity follow. According to the Mach principle the inertial forces are due to the dynamic influence of very distant cosmic masses. A constant and finite value of the cosmical potential χ_{∞} is postulated for the physical universe and from the theory presented it is shown that the general theory of relativity is a direct consequence of the Mach principle. Some simple examples of

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Velocity of electromagnetic waves ... Z/017/63/052/004/001/002
E083/E120

the general theory of relativity are investigated; in particular the movement of a particle in a weak gravitational field. From the theory the existence of a gravidynamic field C follows:

$$\underline{C} = \text{rot } \underline{A}_g \quad (26)$$

and an induced gravitational field in agreement with the approximate solution of Einstein. The inertial forces are then a manifestation of the gravitational field induced in non-inertial systems of coordinates in accelerated motion of the Universe. It is necessary to note that potential is one of the fundamental constants of nature which determines the velocity of light and the law of gravitation. Applying Finsler's theory of gravitation it is possible to calculate the constant of gravitation and the density of matter in the Universe and to find

$$G = 6.67 \times 10^{-27} \text{ m.}$$

$$m_0 = 1.2 \times 10^{54} \text{ kg.} \quad (26)$$

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Velocity of electromagnetic waves ... Z/017/63/092/004/001/002
E083/E120

These values are in fair agreement with the values of Hubble and Guggenheimer. It is shown that the gravitational forces caused by our galaxy do not explain the inertial forces; they contribute only a share of 10^{-6} . There are no figures or tables.

ASSOCIATION: ČVUT, Prague

SUBMITTED: February 2, 1962

Card 3/3

ACCESSION NR: AP4038918

Z/0037/64/000/003/0247/0254

AUTHOR: Horek, Zdenek

TITLE: Correlation effects in atoms and molecules

SOURCE: Ceskoslovensky casopis pro fysiku, no. 3, 1964, 247-254

TOPIC TAGS: Pauli exclusion principle, Z-expansion perturbation theory, quantum mechanics, correlation effect, Shroedinger equation, Hartree-Fock method, atomic quantum theory, molecular quantum theory, solid state chemical bond, solid state physics

ABSTRACT: The Z-expansion perturbation theory developed by Hylleraas (Journ. Phys. 65 (1930), 209) gives a satisfactory description of the electron correlation energy in an atom when carried through to the second approximation. This fact is demonstrated by several recent investigations which are described. The (A) state energy can be brought to the second approximation in the form

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$$\begin{aligned}
 E(A) &= E_0(A) + E_1(A) + E_2(A) = E_{ss}(A) + E_{so}(A) + \Delta E_{kor}(A), \\
 E_{ss}(A) &= E_{HF}(A) + E_2^{ss}(A), \\
 E_{HF}(A) &= -Z^2 \sum_{i=1}^N \frac{1}{2(n^i)^2} + Z \sum_{i>j=1}^N \{ \langle a^i a^j | a^i a^j \rangle - \\
 &\quad - \langle a^i a^j | a^j a^i \rangle \} + \sum_{i=1}^N S' \frac{1}{\frac{1}{2(n^i)^2} + \frac{1}{2(n^i)^2}} \{ \sum_{j=1}^N \{ \langle a^i a^j | x a^j \rangle - \langle a^i a^j | a^j x \rangle \} \}^2, \quad (1) \\
 E_{so}(A) &= \sum_{i=1}^N \left\{ Z \langle a^i | f a^i \rangle + S' \frac{|\langle a^i | f x \rangle|^2}{\frac{1}{2(n^i)^2} + \frac{1}{2(n^i)^2}} \right\}, \\
 \Delta E_{kor}(A) &= \sum_{i=1}^N S' \frac{2}{\frac{1}{2(n^i)^2} + \frac{1}{2(n^i)^2}} \operatorname{Re} \left\{ \sum_{j=1}^N [\langle a^i a^j | x a^j \rangle - \langle a^i a^j | a^j x \rangle] \langle x | f a^i \rangle \right\}.
 \end{aligned}$$

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where $E_{at}(A)$ is the energy of an atom with nucleus Z; $E_{pot}(A)$ is the potential energy N of noncorrelating electrons in a nuclear field $q\alpha$; and $\Delta E_{kor}(A)$ is the change in the electron's correlating energy caused by the influence of the nuclear field $q\alpha$. The extension of the Z-expansion method to molecules is proposed along the lines of the "atoms in molecules" theory proposed by W. Moffit (Proc. Roy. Soc., London, A210 (1951), 224, 245). In this case, the chemical bond is represented by a one-electron perturbation operator of the electron-nucleus interaction. A complete separation of the atomic and molecular energy contributions can be effected with the proposed method. Orig. art. has: 2 tables and 11 equations.

ASSOCIATION: Ustav fyziky pevných látok CSAV, Prague (Institute of Solid State Physics)

SUBMITTED: 21Oct63

DATE ACQ: 03Jun64

ENCL: 00

SUB CODE: GP, SS

NO REF Sov: 000

OTHER: 032

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406
163
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L 41519-65 ARG/EZO-2/ZMG(j)/ZMT(d)/FZO/FSS-2/ZMG(r)/ZMT(1)/FZO/ZEP(e)/
ZEP(t)/ZEP(v)-3/ZPF(c)/ZEC(k)-2/ZEP(f)/ZMG(7)/ZEP(c)/ZEP(v)/ZEP(l)/
ZEP(r)/ZEP(j)/T-2/ZMG(a)-2/ZEP(h)/ZPA(bb)-2/ZEC(e)-2/ZED-2/ZMG(c)/ZCS(k)/ZEP(b)/
AMU45110 P1-4/Fw-4/Pk-4/Pn-4 BOOK EXPLOITATION Pi-4/Fh-4/Pn-2/Po-4/Pc-4/
Po-4/Po-5/Fn-4/Pac-4/Fr-4 IJP(c) AST/TT/WN/DD/RM/GM/BC/Th

Barvir, Miroslav, (Engineer); Benes, Konrad, (Professor, Doctor); Rouska, Jiri; /.../ B41
(Doctor); Hnilil, Ivo, (Graduate in Philosophy); Cepicek, Zdenek, (Candidate of Physical and Mathematical Sciences); Cech, Milan, (Doctor); Dolezel, Vladimir; /.../ (Doctor); Dvorak, Antonin, (Candidate of Medical Sciences); Dvorak, Jaroslav, (Doctor); Guth, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Hornik, Zdenek, (Doctor of Physical and Mathematical Sciences, Corresponding Member of the Czechoslovak Academy of Sciences, Professor, Doctor); Hospodar, Jan, (Doctor of Physical and Mathematical Sciences, Doctor); Kleczek, Jozip, (Doctor); Klest, Emili, (Candidate of Physical and Mathematical Sciences); Kolodovský, Milan, Koml. Vladimir (Doctor); Kopecky, Miloslav, (Candidate of Legal Sciences); Krivsky, Ladislav, (Candidate of Physical and Mathematical Sciences); Kviz, Zdenek, (Candidate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Malek, Vladimir, (Doctor); Moravec, Milan, (Candidate of Medical Sciences); Mrazek, Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of Technical Sciences); Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor); Perner, Jaroslav, (Doctor); Candidate of Physical and Mathematical Sciences; Peack, Rudolf, Professor, Doctor, Engineer); Pipal, Miloslav, (Doctor of Technical Sciences, Corresponding member, of the Czechoslovak Academy of Sciences); Plavec, Miroslav, (Doctor); Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

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L 41519-65
A4045110

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Ruml, Vladimir, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schnal, Ladislav; Stvernak, Jiri, (Doctor); Svetatka, Zdenek, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tyrl, Vaclav, (Docent, Engineer); Ulehla, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicek, Boris, (Candidate of Physical and Mathematical Sciences, Doctor); Vanyscek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miloslav, (Engineer)

Principles of astronautics (Zaklady kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

TABLE OF CONTENTS:

Card 2/8

HORAKA, B.

Observations of IEPM values of growing points of flower buds of the apple
during the period before their morphologic differentiation. In English.
p. 16

BIOLOGIA PLANTARUM. (Ceskoslovenska akademie ved. Biologicky ustav)
Praha, Czechoslovakia, Vol. 1, no. 1, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

CZECHOSLOVAKIA

HRUDKA, F.; HORAKOVA, A.; HORAK, J.; Veterinary Faculty, College of Agriculture, Chair of Histology and Embryology (Veterinarska Fakulta VSP, Katedra Histologie a Embryologie), Kosice.

"Cytochemical Studies of Activity of Endogenous Reductases in Spermatozoa. III. Effect of Ionizing Radiation on the Motility and Activity of Endogenous Reductases and Succinodehydrogenase of the Ejaculated Bull Spermatozoa."

Prague, Veterinarni Medicina, Vol 11, No 6, Jun 66, pp 361-370

Abstract [Authors' English summary modified]: 2000-5000 r reduce the motility of washed; 10,000 r, of unwashed spermatozoa. Succinodehydrogenase is more resistant to radiation than endogenous reductases. Radiation decreases the activity of the enzymes after a certain period of latency, which follows the irradiation. The inhibition starts slowly and increases linearly. The sensitivity of spermatozoa depends on the individuality of the donor. 0.15M NaCl solution increases the effect of irradiation on reductases, but does not affect the succinodehydrogenase. 3 Figures, 2 Tables, 12 Western, 7 Czech references. (Manuscript received 6 Nov 1965).
1/1

HORAKOVA, D.

Stereoscopic microscope in the laboratory of an enterprise for bulk purchase
of agricultural products, p. 11.

TECHNIKA VYKUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho
prumyslu a výkupu zemedelskych výrobku a Sdruzeni mlynu a pekaren)
Praha, Czechoslovakia, Vol. 5, no. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), IC Vol. 9, no. 2,
Feb. 1960

Uncle.

HORAKOVA, D.

Electrophoresis of the blood proteins in the serum of cocks
fed a cholesterol diet. Sborn. Lek. 66 no. 5:156-159 Ap '64.

1. Angiologicka laborator fakulty všeobecného lekarství
University Karlovy v Praze (reditel prof. dr. Z. Reinis, DrSc.).

REINIS, Z.; BAZIKA, V.; HEYROVSKY, A.; HOPAKOVA, D.; SULC, M.; SOUKUPOVA, K.;
PUCHMAYER, V.; KLENKA, L.; KRAUS, H.

Epidemiology of atherosclerosis in the agricultural population
of Northern Bohemia. Cas. lek. cesk. 104 no.38:1029-1034 24 S '65.

1. Angiologicka laborator fakulty vseobecneho lekarstvi Karlovy
University v Praze (vedouci prof. dr. Z. Reinis, DrSc.), IV. interni
klinika fakulty vseobecneho lekarstvi Karlovy University v Praze
(prednosta prof. dr. M. Fucik, DrSc.) a II. ocni klinika fakulty
vseobecneho lekarstvi Karlovy University v Praze (prednosta akademik
J. Kurz).

CZECHOSLOVAKIA

UDC 312.6:616-057:66

HORAKOVA, Eva; MERHAUT, Jiri; Dermatological Department Okresni Institute of National Health (Kozni Oddeleni OUNZ), Pardubice, Head (Vedouci) Dr M. SABATOVA; Industrial Institute of National Health (ZUNZ), Semtin-Rybitvi, Director (Reditel) Dr J. KRTICKA.

"Our Experience in Investigating Health of Workmen Employed in Benzanthrone Production."

Prague, Pracovni Lekarstvi, Vol 18, No 2, March 1966, pp 78 - 81

Abstract [Authors' English summary modified]: The state of health of 107 workmen employed in the production of benzanthrone was studied for 4 years. The most significant results of the employment were dermatological afflictions, ranging from pruritus to precocious generalized eczemas. Pigmentation and photosensitization, which did not occur too frequently, is probably caused by the main intermediary product, anthraquinone. A number of men listed a decrease in sexual activity in their anamnesis. No liver damage was found. 1 Table, 1 Western, 1 Czech, 1 Russian reference. (Manuscript received 8 May 65).

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FABRY, F.; BRAUN, T.; PETRASEK, R.; HORAKOVA, E.; KONOPASEK, L.

The effect of the pattern of food intake on the carcass composition
of rats receiving diets with varying fat content. Physiol. Bohemo-
slov. 13 no.4:333-340 '64.

1. Department of Physiology, Institute of Human Nutrition, Prague.

Huk Pavl. 11/11

NEMEC, Pavol; HROBNICA, Ludovit; ANTOS, Kamil; KRISTIAN, Pavol; HULKA,
Alexander; HORAKOVA, Katalina

Cancerostatic action of beta-naphthylisothiocyanate. Neoplasma,
Bratisl. 5 no.2:207-208 1958.

1. Faculty of Chemistry, Slovak Polytechnical University, Bratislava.
Authors' address: Prof. Dr. P. Nemec and co-workers, Chémicka fakulta
Slovenskej vysokej školy technickej, Bratislava, Kollarovo namestie 1.
(CYANATES, effects,
β-naphthylisothiocyanate, on exper. cancer)
(CYTOTOXIC DRUGS, effects,
same)

[] CZECHOSLOVAKIA

Ivan VELIKY and Katerina HORAKOVA, Department of Technical Microbiology and Biochemistry, Chemical Faculty, Slovak Technological College (Katedra technickej mikrobiologie a biochemie, Chemicka fakulta, Slovenska vysoka skola technicka,) Bratislava.

"Effect of Cobalt on the Growth of HeLa Cells."

Bratislava, Biologia, Vol 18, No 2, 1963; pp 145-148.

Abstract [German summary modified]: One, 3 and 5 mg. of Co (as $\text{CoCl}_2 \cdot 6 \text{H}_2\text{O}$) per liter of nutrient fluid stimulated, 10 to 50 mg. inhibited, and 60 to 100 mg. killed HeLa cells; optimum was 1 mg.; inhibitory concentration 50 was 15 mg.; inhibitory concentration 100 was 50 mg. Chart, 2 tables; 7 Western and 2 Czech references.

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L 14826-66 EWA(j)/T/EWA(b)-2 JK
ACC NR: AP6008344

SOURCE CODE: CZ/0049/65/000/003/0189/0193

AUTHOR: Horakova, Katarina--Gorakova, K. (Graduate biologist; Bratislava)

GRG: Department of Technical Microbiology and Biochemistry, Slovak Technical University, Bratislava (Katedra technickej mikrobiologie a biochémie Československej vysokej školy technickej)

TITLE: Determination of the cytotoxic effect of various inhibitors and cytostatics upon tissue cultures^{6, 44, 56}

SOURCE: Biologia, no. 3, 1965, 189-193

TOPIC TAGS: organic solvent, antibiotic, toxicity, cytology, biologic metabolism

ABSTRACT: Cytotoxic effect of metabolic inhibitors, antibiotics, and organic solvents was determined on HeLa cell cultures. Some substances were also tested on cells Detroit 6, Amnion, and fibroblasts. All the cells of various origins showed similar sensitivity to the tested compounds. Dioxane was found to be more toxic than methanol and ethylene glycol. Tetramethyl thiuram-disulfide was the most cytotoxic among the metabolic inhibitors tested. Cyaneine was the most toxic antibiotic. Orig. art. has: 1 figure and 3 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 30 May 64 / ORIG REF: 002 / OTH REF: 013
Card 1/1 FW

HORAKOVA, M.

2 serious complications following infiltration with hydrocortisone. Cesk. derm. 40 no.5:302-305 O '65.

1. I. dermatovenerologicka klinika fakulty vseobecneho lekarstvi Karlove University v Praze (prednosta prof. dr. J. Konopik, DrSc.).

HORAKOVA, M.; HUBACEK, J.

Toxoplasma lymphadenitis. Cesk. otolaryng. 13 no.1:45-50 F'64.

1. Otolaryngologicka katedra lekarske fakulty PU v Olomouci;
vedouci: prof.dr. J.Chvojka.

JELINEK, R.; HRABA, M.; HORAKOVA, M.

Staphylococci in otorhinolaryngology. Cesk. otolar. 10 no.4:203-206
Ag '61.

1. Otolaryngologicka klinika PU v Olomouci, prednosta doc. MUDr.
Jar. Chvojka.

(OTORHINOLARYNGOLOGY microbiol)
(STAPHYLOCOCCAL INFECTIONS)

HORAKOVA, M.

(4)

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: MD

Affiliation: Otolaryngological Clinic PU /Palackeho universita; Palacky University/ (Otolaryngologicka klinika PU), Olomouc; Director: Docent

J. CHVOJKA, MD.

Source: Prague, Prakticky lekar, Vol 41, No 9, 1961, pp 405-406.

Data: "Staphylococcal Infections in Otolaryngology."

Authors: JELINEK, R.

HRABA, M.

HORAKOVA, M

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CIA-RDP86-00513R000618120015-7

HOKA HOKA H

Bratislava, Paracentrichy Chor, Vol. 30, No 11, 1951.

(No copyright)

1. "Specialization of Pharmacists and Preparation for the Qualification Examination S. O. M. [Slovenskej Organizacie Farmaceutickej Skoly] [Slovak Organization of Pharmacy Institute for Chemical Education] (Paracentrichy Katedra ULL - Instav pro doskoleni a lakovani) Praha; pp 301-304.
2. "Correlation of the Party and Strength of Herba Sibirica with the Preparation Function Z. Humer, F. Spitz, Natural Product Research Institute Prague; pp 305-306.
3. "Synthesis of Some Quinolinecarboxylic Acids as Possible Antineoplastic Drugs J. Hrdlicka, V. Hrdlickova and M. Hrdlicka Department of Pharmaceutical Chemistry, Faculty of Medicine, Department of Chemistry of the Faculty of Pharmacy (Medicne, Chemie, Farmacie) Faculty of the Comenius University (Univerzita Karola Komenskeho) Bratislava and State Veterinary Scientific Institute (Stavky Vedecy Veterinarny Ustava) Bratislava; pp 307-309.
4. "Spiralantes, a New Class of Antibiotics" O. Holomota, Department of Plant and Chemical Institute, General Technical College (Katedra Farmaceutickej a Generickej techniky) Bratislava; pp 310-314.
5. "Organization of the Pharmacy Service - Report in the Office of Episkope Hon. Vass L. [Episkop L. Vass] Pharracy Development Officer (Farmakove Technicko) Praha; pp 322-327.

HORAKOVA,O.; KALAMAR,J.; SOPINSKA,M.; HORAK,F.

The presence of alpha-lipoic acid in natural substances. Cesk.
farm 13 no.3:107-110 Mr'64.

1. Slovensky ustav pro dosk^alovani lekaru, Bratislava; Katedra
biochimie farmaceuticke fakulty a katedra organicka technologie
chemicke fakulty UK, Bratislava.

HORAK, F.; HORAKOVA, O.

Contribution to calcium metabolism. I. Cest. gastrocent. vyz. 15 no.4:
304-310 Je '61.

J. Chemicka fakulta SVST v Bratislave a Ustav pre doskoloovanie
lekarov, stredisko v Bratislave.
(CALCIUM metab)

CZECHOSLOVAKIA

BODAYOVA, L.; HORAKOVA, V.; TOMANEK, J.; Research Institute for Veterinary Medicina (Vyzkumny Ustav Veterinarniho Lekarstvi), Brno - Medlanky.

"Bacteremia Findings in Fowls that Died After an Exposure to Increasing X-Ray Doses."

Prague, Veterinarni Medicina, Vol 11, No 8, Aug 66, pp 529 - 536

Abstract [Authors' English summary modified]: Mature New Hampshire cocks and hens aged 8-12 months were irradiated with different X-ray doses of 800, 1000, 1200, 1400, 1600, 1800, and 2000 r. Bacteremia was proved in 13 out of 38 animals that died; Enterobacteriaceae were the most frequent cause, mainly Escherichia coli and lactose-negative variants of E. coli. In one case Streptococcus faecalis var. liquefaciens was found. Bacteremia occurred the 3rd day following irradiation, most frequently between the 6th and 8th days. 3 Tables, 15 Western, 4 Czech, 2 Russian, 1 Polish reference. (Manuscript received 24 Apr 65).

1/1

HORAKOVA, Vera, promovana geoložka

The Geofond records of deposits. Geol průzkum 6 no.1:
18-19 Ja'64.

1. Geofond, Praha.

HORAKOVA, V.M.

HORAKOVA, V.M.

Tubers of orchidaceous plants. Cas.cesk.lek. 63 no.23:301-307
15 Dec 50. (CIML 20:5)

1. Of the Botanical Institute, (Head--Prof. F.A. Novak, Ph.D.)
Charles University, Prague.

HORAKOVA, Z.

TRCKA, V.; HOLUBOVA, E.; MACOVA, S.; HORAKOVA, Z.

Modification of prothrombin time during storage of normal
rabbit plasma and with added pelentan. Cas. lek. cesk. 90 no. 48:
1435-1437. 30 Nov. 1951. (CMLL 21:3)

1. Of the Research Institute for Pharmacy and Biochemistry in
Prague.

HORAKOVA, Z.

Antipyretic action of chamazulene. Chekh. fisiol. 1 no.3:195-204
Sept 52.

1. Farmakologicheskiy institut meditsinskogo fakul'teta universiteta
im. Karla IV, Praga.

(PLANTS,
chamomile extract chamazulene, antipyretic eff.)

(ANTIPYRETICS,
chamomile extract chamazulene)

Editorial notes
H-N 00

CH HORAKOVA, Z.

Comparison of the analgesic effect of morphine, methadone, and demerol. Z. Votava and Z. Horáková (Research Inst. Pharrn. Biochem., Prague). Československ. farm. 1, 338-47 (1952).—Analgesic effects, toxicity, and effects on blood pressure and respiration were compared. The relative analgesic potencies of the intraperitoneal injections are: morphine (I) 1, demerol (II) 0.5, and methadone (III) 3. I exerts the least influence on blood pressure and respiration, III the most pronounced. LD₅₀ values on intravenous administration to mice were 200 mg./kg. for I, 63.78 mg./kg. for II, and 23.45 mg./kg. for III. D. H.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7

Pravda, 1952

Vejvoda, Z.; Mikra, V.; Polakow, Z. "Chemistry and pharmacology of vomititing substances."

Chemicke Zvesti, Bratislava, Vol 6, No 3/4, Mar./Apr. 1952, p. 223

50: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7"

HORAKOVA, Z.; VOTAVA, Z.

Analgetic effect of morphine, dolsin and mecodin in various ways
of application; a pharmacological study. Cesk.farm. 4 no.3:131-133
Apr 55.

1. Z Vyzkumneho ustavu pro farmacie a biochemii, Praha.
(MORPHINE, anesthesia and analgesia,
analgetic eff. in relation to various ways of applica-
tion)
(MEPERIDINE, anesthesia and analgesia,
analgetic eff. in relation to various ways of applica-
tion)
(METHADON, anesthesia and analgesia,
analgetic eff., relation to method of application)

HORAKOVA, Zdena; HACH, Vladimir

Biological evaluation of the new local anesthetics derived from
xylocaine. Cesk. farm. 4 no.5:234-240 June 55.

1. Z Vyzkumneho ustavu pro farmacii a biochemii, Praha.
(ANESTHETICS, LOCAL
xylocaine deriv., biol. evaluation)

HORAKOVA, Z.; PUJMAN, V.

Comparative studies on pharmacological properties of mesantoin,
milontin, and phenuron. Cesk. farm. 4 no.7:333-337 Sept 55.

1. Akademikovi K. Hennerovik sedesatinan. Z Vyskumneho ustanu
pro farmacii a biochemii, Praha.

(HYDANTOINS,

mesantoin, comparison with N-methyl-2-
phenylsuccinimide & phenacetamide)

(ANTICONVULSANTS,

N-methyl-2-phenylsuccinimide, comparison with
mesantoin & phenacetamide)

(ANTICONVULSANTS,

phenacetamide, comparison with mesantoin & N-methyl-
2-phenylsuccinimide)

HORÁKOVÁ, Zdena

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2
Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

Author : Hach, Vladimír; Horáková, Zdena,
Protiva, Miroslav.

Inst :
Title : Local Anesthetics. IV. n-Aminobenzoates of
4-piperidinomethyl-1,2-benzocycloalkanoles-3.

Orig Pub: Chem. listy, 1955, 49, No. 2, 227 - 230.

Abstract: 2-piperidinomethylindanol (IV), 2-piperidino-
methyltetralol (V) and 6-piperidinomethylbenzo-
suberol-5 (VI) were prepared by reduction of
2-piperidinomethylindanone (I), 2-piperidino-
methyltetralone (II) and 6-piperidinomethyl-
benzosuberone-5 (III) with LiAlH₄. n-Nitroben-
zoates of IV, V and VI (VIII, IX and X) were

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APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618120015-7
CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2
Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

obtained from IV to VI at a low yield by the
interaction with n-nitrobenzoylchloride (VII).
VIII to X produced corresponding n-aminoben-
zoates (XI, XII and XIII) by hydrogenation over
PtO₂. IV, V and VI were obtained in the shape of
one stereoisomer in all cases. In the duration
of 20 min. 18 g of chlorohydrate of I was intro-
duced into the suspension of 1.8 g of LiAlH₄
in 400 ml of absolute ether, the mixture was
boiled 10 minutes, decomposed with 20 g of NaOH
and 250 ml of water and extracted with ether;
HCl (gas) was let through the dry distilled
ether extract and chlorohydrate of IV was
received, yield 61%, melting point 202-203°
(from alcohol). Similarly, V was received from

Card 2/5

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2
Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

chlorohydrate of II and LiAlH₄, yield 47%, melting point 98-100° (from petroleum ether). When boiled with HBr (acid, 1 : 3), V splits producing piperidine bromohydrate, melting point 230-232° (from alcohol). Chlorohydrate of VI, melting point 205° (from alcohol-ether) was received from chlorohydrate of III similarly to IV, yield 74%. The mixture of the solution of IV (separated with soda from 5 g of chlorohydrate) in 75 ml of CHCl₃ and of the solution of 3 g of VII in 75 ml of CHCl₃ was distilled dry in air, chlorohydrate of VIII, melting point 164-165° (from alcohol-ether) was in the residue. Solution of 4 g of V and 3 g of VII in 25 ml of pyridine was heated (100°, 3 min.), 48 hours

Card 3/5

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618120015-7
CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

later it was decomposed with the solution of NaHCO₃, the precipitate was suspended in ether and converted by HCl (gas) into chlorohydrate of IX, melting point 182-183° (from alcohol-ether). Chlorohydrate of X, melting point 206-207° (from alcohol-ether) was obtained from VI and VII. 3.1 g of chlorohydrate of VIII in 300 ml of alcohol was hydrogenated over 0.4 g of PtO₂, alcohol was distilled off, the base was separated by soda solution and extracted by ether, XI was obtained, yield 90%, melting point 140-141° (from alcohol-petroleum ether). XII was produced from IX in the same way, yield 75%, melting point 139-141° (from alcohol-petroleum ether), and XIII from X, yield 60%,

Card 4/5

HORAKOVA, Z; HACH, V.; ROTH, Z.; MATOUSKOVA-SMOLKOVA, H.

Local anesthetic action and certain remote pharmacological properties of alkoxy derivative of xylocaine. Česk. fysiol.
5 no.4:460-470 1956.

1. Vyzkumný ustav pro Farmacie a Biochemii, Praha.
(LIDOCAINE, related compounds,
alkoxy deriv., local anesth. & pharmacol. (Cz))

HORA Kova - Z.

✓ Investigations of local anaesthetics with protracted effects
III. The effect of a simple quaternary salt on the duration of local anaesthetics. V. Hora and J. Horakova
in: *Acta Chir. et Orthop. Brno.*, Prague, 1957, p. 101.
In the experiments on the dog's ear, it was shown that the
duration of action of procaine, cocaine, tetracaine and
lidocaine increases (prolongation of the time of 50% anaesthesia
infiltration) if it is infiltrated by the quaternary ammonium
salt.

HORAKOVA, Z.; MANSFIELD, V.; HLAJOVEC, J.

Depressing effect of trypsin and of its inhibitor on experimental inflammation in rats. *Cesk. fysiol.* 7 no.3:268-269 May 58.

1. Vyskumný ustav pro farmacie a biochemii, Praha.
(THYPSIN, eff.
antiphlogistic eff. of trypsin & trypsin-antag. (Cs))
(INFLAMMATION, exper.
same)

HIADOVEC, J.; HORAKOVA, Z.; MANSFIELD, V.

Effect of potato trypsin inhibitor.II. Effect on burns and further anti-inflammatory activity. Cesk. fysiol. 7 no.5:467-468 Sept 58.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.
(THYPSIN, antagonists,
potato trypsin inhibitor, eff. on burns & inflamm. (Cz))
(BURNS, exper.
eff. of potato trypsin inhibitor (Cz))
(ANALGESICS AND ANTIPYRETICS,
potato trypsin inhibitor, eff. on exper. inflamm. & burns (Cz))

CZECHOSLOVAKIA / Organic Chemistry. Synthesis

C-2

Abs Jour: Ref Zhur-Khimiya, No 3, 8338.

Author : Ctvrtlik, Josef., Mayer, Jiri., Nemecek, Oldrich.,
Horakova, Zdena.

Inst : Not given.

Title : New Derivatives of 1,2-Diphenyl-3,5-Diketo-Pyrazolidine.

Orig Pub: Ceskosl. farmac., 1958, 7, No 6, 303-304.

Abstract: Gamma-chlorocrotyl-malonic ester (I) condensed with hydrazo-benzene (II) to 1,2-diphenyl-4-(gamma-chlorocrotyl)-3,5-diketo-pyrazolidine (III), which was also prepared by alkylation of 1,2-diphenyl-3,5-diketo-pyrazolidine with 1,3-dichlorobutene-2 in aqueous alcoholic solution of NaOH. Treatment with H₂SO₄ converts III to 1,2-diphenyl-4-(gamma-ketobutyl)-pyrazolid-

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EXCERPTA MEDICA Sec 2 Vol 12/6 Physiology June 59

2497. PHARMACOLOGY OF 1:2-DIPHENYL-4-(3-KETOBUTYL)PYRAZOLIDINE-3,S-DIONE - Pharmakologische Eigenschaften des 1,2-Diphenyl-4-(γ -keto-butyl)-pyrazolidin-3,5-dions - Horáková Z., Němetek O., Pujsman V., Mayer J., Čtvrtík J. and Votava Z. Forsch.-Inst. für Pharm. und Biochem., Praha, XII - ARZNEIMITTEL-FORSCH. 1958, 8/4 (229-231) Tables 3

The pharmacological properties of this compound (3-ketophenylbutazone) (I) were compared with those of phenylbutazone (II). In experimental arthrosis in the rat produced by egg albumin, formalin or kaolin, I was more effective. The LD₅₀ was higher for I while the effects on blood-forming and other organs were similar for the 2 agents.

Swaine - Philadelphia, Pa.

HORAKOVA, Zdena (Praha 12, Kourimska 17)

Determination of diuretic effect of triantoin, epimid and phenacemide
in rats. Cesk. neur. 21 no.1:25-31 Jan 58.

1. Vyzkumny ustav pro farmacie a biochemii, Praha.

(HYDANTOINS, eff.

mesantoin, diuretic eff. in rats (Cx))

(ANTICONVULSANTS, eff.

phenacemide phenacetin phenacetimide, diuretic eff. in
rats (Cx))

CZECHOSLOVAKIA/Pharmacology and Toxicology - Tranquillizers.

v-2

Abs Jour : Rec' Zhur ~ Biol., No 14, 1958, 66207
Author : Votava, Z., Sramkova, J., Horakova, Z.
Inst :
Title : Pharmacological Properties of Diethylaminoethyl Ether
Benzilate (Benactyzin), a Drug Used in the Treatment of
Anxiety States.

Orig Pub : Casop. lekaru ceskych, 1958, 97, No 1, 22-27.

Abstract : The oral administration of 2 mg/kg of Benactyzin (I) to
dogs with already developed conditioned defense reflexes
failed to influence positive reflexes; when given intra-
venously I resulted in their decrease 30 min. after admi-
nistration. A weak anticonvulsive effect of I was obser-
ved in seizures in mice, caused by Pentazol; I only slight-
ly potentiated thiopental narcosis but manifested pronounced
anesthetic properties when used for surface and infil-
tration anesthesia in guinea pigs, as well as an

Card 1/2

- 5 -

HORAKOVA, Z.; HLAJOVEC, J.; MANSFIELD, V.

Effect of potato trypsin inhibitor. III. Effect on experimental gastric erosion in rats. Česk. fysiol. 8 no.3:198-199 Apr 59.

1. Vyzkumný ustav pro farmacie a biochemii, Praha. Predneseno na III. fysiologických dnech v Brně dne 15. 1. 1959.

(PEPTIC ULCER, exper.

eff. of trypsin inhibitor isolated from potatoes (Cz))

(POTATOES, extracts,

trypsin inhibitor, eff. on exper. peptic ulcer (Cz))

(TRYPSIN,

trypsin inhibitor from potatoes, eff. on exper. peptic ulcer (Cz))

HORAKOVA, Z.

Anti-spastic effect of butynylbarbituric acid derivatives. Česk.
fysiol. 8 no.5:450-451 S '59

1. Vyzkumný ústav pro farmacie a biochemii, Praha.
(BARBITURATES pharmacol.)
(MUSCLE RELAXANTS, pharmacol.)

CZECHOSLOVAKIA

Z. HORAKOVA, J. MURATOVA, V. PUJMAN and V. BYDZOVSKY, Pharmacy and Biochemistry Research Institute (Vyzkumny ustav pro farmacie a biochemii) Prague,

"Sulfonamides with Prolonged Antibacterial Effectiveness. Pharmacology of Sulfamethoxydine."

Prague, Ceskoslovenska Farmacie, Vol 12, No 2, Feb 63; pp 73-77.

Abstract [English summary modified]: Authors' "sulfamethoxydine" which is 2-sulfanilamido-3-methoxypyrimidine was found superior long-acting sulfonamide to sulfamethoxypyrimidine, sulfaphenazole and sulfadimethoxine. LD₅₀ is lower (30 mg./Kg. orally in mice did not kill a single one of 10); potentiation of CNS stimulants is lower. Only signs of potential toxic effects increased weight of thyroid and kidneys with chronic treatment group of animals; drug is also diuretic. Table, 3 Czech, 1 Swiss, and 1 Soviet reference.

L 29402-66

ACC NR: AP6019988

SOURCE CODE: CZ/0079/65/007/003/0274/0276

22
B

AUTHOR: Horakova, Z.; Muratova, J.; Vitek, V.; Vojtechovsky, M.

ORG: Research Institute for Pharmacy and Biochemistry, Prague

TITLE: Experimental and clinical analysis of cycloserine - amino acid interaction
(This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965)

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 274-276

TOPIC TAGS: amino acid, experiment animal, pharmacology, nervous system drug

ABSTRACT: In experiments on monkeys, the authors found that the effect of L-cycloserine (CS) is antagonized by administration of sodium glutamate. Experiments on patients showed that of the drugs, psilocybin and iproniazide potentiate the effect of CS while amphetamine has no effect on the CS action. The effect of CS was also antagonized by alpha-ketoglutaric acid, pyridoxine methionine and succinic acid. The neurotoxic effect was also potentiated by dl-DOPA, L-leucine, and L-serine. [Orig.]

art. in Eng. [JPS]

SUB CODE: 06/ SUBM DATE: none/

Card 1/1 CC

NEZVAL, J.; FRANG,Z.; FRANCOVA,V.; HORAKOVA, Z.; JANATA, V.

Toxicity and metabolism of labelled Septonex-C¹⁴ in laboratory animals. Cesk. hyg. 10 no.3:241-244 My '65

1. Katedra hygieny a epidemiologii lekarske fakulty University J.E. Purkyne, Brno a Vyzkumny ustav pro farmacii a biochemii, Praha.

VITEK, V.; HUBANK, K.; HORAKOVA, Z.; MURATOVA, J.; VOJTECHOVSKY, M.;
VALDOVSKY, R.

An attempt at explaining the psychotropic effect of cycloserine
isomers. Cas. lek. cesk. 104 no. 5:113-124 5 F'65.

1. Vyzkumny ustav experimentalni terapie, interni katedra MUDL,
Praha-Krc (reditel: prof. dr. O. Smahel, DrSc); Vyzkumny ustav
pro farmacie a biochemii, Praha (reditel: inz. dr. J. Nemecek);
Ustav pro vyzkum vyzivy lidu, Praha, (reditel: prof. dr. dr.
J. Masek, DrSc.) a Oddeleni tbc pri Thomayerove nemocnici,
Praha-Krc (vedouci: MUDr. K. Prosek).

ACC NR: AP6032383

SOURCE CODE: CZ/0053/66/015/005/0407/0407

AUTHOR: Horakova, Z.; Muratova, J.; Musil, V.; Nemecek, O.

ORG: Institute for Research in Pharmacology and Biochemistry, Prague (Vyzkumny ustav pro farmacii a biochemii)

TITLE: Chemical origin and pharmacological properties of benzopyrazon

SOURCE: Ceskoslovenska fyziologie, v. 15, no. 5, 1966, 407

TOPIC TAGS: pharmacology, drug, medicine

ABSTRACT: A synthetically prepared 4-benzylethyl derivative called benzpyrazon has been pharmacologically tested, and the first clinical reports have been submitted. The source describes the chemical origin and the main pharmacological properties of the drug. The drug has proved effective in the treatment of venous thromboses chiefly in the inactive stage and of progressive arthritis. [WASO] [KP]

SUB CODE: 06/ SUBM DATE: none/

Card 1/1 vmb

PALATY, Jiri; HORAKOVA-JAKUBU, Marta

The course and the rate of volatization of cyanides from water under natural conditions. Sbor pal vod VSChT no.3, part 1:83-114 '59.

1. Katedra technologie vody Vysoke skoly chemicko-technologicka, Praha.

HORAL, Alexander, inz.

New working methods in supplying the production. Podn org 18 no.9:
391-393 S '64.

1. Office of the Prime Minister, Prague.

HORAL, Alexander, inz.

Comparison of material reserves of machinery industries in the
capitalist and socialist countries. Podnik organizace 16 n.č.12:546-548
D '62.

1. Technickoekonomicky vyzkumny ustav hutniho prumyslu a rudnych dolu.

HORAL, Alexander, inz.

Sale of metallurgic products in the Soviet Union. Pod org 17 no.4:
188-190 Ap '63.

1. Technickoeconomicky vyzkumny ustav hutniho prumyslu a rudnych
dolu.

HGRAL, Alexander, inz.

For systematic performance of the Resolution of the 12th Congress
of the Communist Party of Czechoslovakia in the field of technical
material supply. Pod org 17 no.6:257-260 Je '63.

1. Technickoekonomicky vyzkumny ustav hutniho prumyslu a
rudnych dolu, Praha.

HORAL, I.

HORAL, I. Topographic measurements in built-up areas by means of the polar method with a vertical stadia rod. p. 184.

Vol. 1, No. 10, Oct. 1956.
GEODETICKY A KARTOGRAFICKY OBZOR
SCIENCE
Praha, Czechoslovakia

See: East European Accession, Vol. 6, No. 2, Feb. 1957

HORAL, Jiri

Maffuci's syndrome. Acta chir. orthop. trauma. Cech. 28 no.1:19-24
F '61.

1. Chirurgicke oddeleni OUNZ Michalovce, prednosti MUDr. Stefan Kukura.
(DYSCHONDROPLASIA case reports)

HORALEK, F.; NEVRLA, F.; BALON, O.

Causes of intrauterine fetal death at the Gynecological-Obstetrical Hospital in Olomouc during the period from 1957 to 1961. Cesk.gynek. 28 no.8:536-538 O '63.

Relation of intrauterine fetal death to prenatal care during the period 1957-1961 in Olomouc. 539-541

1. Gyn.-por. klin. lek. fak. UP v Olomouci, prednosta doc. dr. F. Gazarek, CSc.

330. HORÁLEK Fr. and KUCERA Fr. H. por.-gym. Klin. MU, Brno. "Význam mesenchymu pro výnik a ranní diagnostiku Ca cervix dle Hinseimanna." significance of mesenchymal changes for the early diagnosis of carcinoma of the cervix uteri. Čsl. GYNAEK. 1955, 1 (29-33) Illus. 5

Hinseimann's classification of atypical epithelia is insufficient, as it disregards the connective tissue. Grade III-IV are by many considered as direct precursors of carcinoma and so many women are operated upon radically without need. Among 365 cases of biopsy and conization from suspect erosions, grade III was found in 107, but all were cured by conization or cauterization without radical resections. Only those epithelial changes should be looked upon as suspect, which are accompanied by dedifferentiation of the connective tissue, i.e. reversal to a foetal type; numerous, wide, thin-walled capillaries formed from endothelium only, rarefaction of the connective tissue with appearance of wide open spaces, as far as to form spiderweb-like structures, mobile cells of mononuclear character in these spaces, and, finally, disappearance of the basal membrane; invasive growth of the epithelium. As far as the epithelium is concerned, positive changes are decisive.

Rohar - Valašské Meziříčí (R.)

HORALEK, Frantisek, Prof., Dr., (Brno)

Importance of Jan Jerie for Czechoslovakian gynecology.
Cesk. gyn. 22/36 no.1-2:4-8 Feb 57.

(GYNECOLOGY
contribution of Jan Jerie (Cs))
(BIOGRAPHIES.
Jerie, Jan, Bibl. (Cs))

HORALEK, Fr., Prof., Dr.

Lymphangioma tubae and its genesis. Cesk. gyn. 22[36] no.4:
273-277 May 57.

1. II. por. -gyn. klinika v Brne, prednosta prof. Dr. Fr. Horalek.
(FALLOPIAN TUBES, neoplasms
lymphangioma, etiol. (Cx))
(LYMPHANGIOMA, case reports
fallopian tubes (Cx))

EXCERPTA MEDICA Sec 5 Vol.11/8 Gen. Pathology Aug 58HORALEK, FR.

2039. LYMPHANGIOMA TUBAE AND ITS GENESIS - Lymphangioma tubae a jeho genese - Horálek Fr. II. Por.-Gyn. Klin., Brno - ČSL. GYNAEK. 1957,
57/4 (273-277) Illus. 6

Three cases of tubal lymphangioma are described, and its frequent association with myoma, endometriosis, pulmonary tuberculosis and genital hypoplasia is stressed. The tumour is benign, only rarely becoming malignant. It is caused by irritation of the tubal lymphatic system, either through the toxic influence of pulmonary tb, or the increased resorption and irritation of the reticulo-endothelium in tubal tb. Always there is tubal endometriosis, and, caused by the tubal menstruations lasting for many years, an overburdening of the lymphatic system by resorption and phagocytosis. The lymphatic origin is proved by the lymphectasias in the surroundings of the tumour, and the rows of lymphocytes in its periphery. Very suggestive is the first of the 3 cases, with a lymphangioma on the right side, and on the left salpingitis nodosa with numerous diffuse lymphectasias in the longitudinal muscular coat of the isthmus in consequence of a contraction of the tubal sphincter. The mesothelial origin, as assumed by some authors, is incorrect.

Rohan - Valašské Meziříčí (X, 5)

ZENISEK, L.; HORALEK, Fr.; SCHWARZER, M.

Our experiences with pneumopelvigraphy. Cesk. gyn. 26 no.3:164-166
Ap '61.

1. Gyn. por. klin. PU v Olomouci, zast. predn. MUDr. E. Lindner.
(GENITALIA FEMALE radiog)

HORALEK, Josef, (Prague)

Conference on preparing the research on modernization of
mathematic teaching in experimental schools. Pokroky mat fyz
astr 9 no. 3, 1984.

HORALEK, K.

New technological trends in preserving fruit and vegetables. p.245.
(Prumysl Potravin, Vol. 8, No. 5, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

HORALIK, R.

A new method for determining the grass content in textiles.

p. 35 (Veda a Vyzkum v Prumyslu Textilnim. No. 1, 1956, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEA) I.C. Vol. 7, no. 2,
February 1958

HORALEK, Milan

Remuneration for work in Yugoslavia. Prace mzdá 12 nro. 38129-
137 Mr. 64.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7

HORALEK, Milan

Problem of wages in the regulations on the improvement of planned
management system. Frace mzda 12 no.11:483-4/92 N '64.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120015-7"

HORALEK, Milan

Important problems of scientific organization of work. Podn org
18 no.5:207-209 My '64.

1. Institute of Economics, Czechoslovak Academy of Sciences.

HORALEK, O.

"A new type of small-shelved wagons with spring lifting." p. 200.

STAVIVO. (MINISTERSTVO STAVEBNICTVI). Praha, Czechoslovakia, Vol. 37, no. 6,
June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Uncl.

HORALEK, V.

"Statistical Selective Method in Receiving Goods." p. 849. (STROJIRENSTVI.
VOL. 4, No. 11, Nov. 1954; Praha, Czech.)

So: Monthly List of East European Accessions, (EEL), IC, Vol. 4, No. 4,
April 1955, Uncl..

HORALEK, Vratislav, inz. CSc.

On some types of nonhomogeneous birth - immigration - death
processes. Aplikace mat 9 no.6:421-434 '64.

1. State Research Institute of Heat Technology, Prague 1, Husova 8.
Submitted September 24, 1963.

DRAPAL, Stanislav, inz.; HORALEK, Vratislav, inz.; REZNY, Zdenek, inz.

Quantitative metallographic lattice analysis. Hut listy
12 no.6:485-491 Je '57.

1. Vyzkumny ustav materialu a technologie, Praha a Vyzkumny
ustav tepelne techniky, Praha.

HORALEK, VRATISLAV

CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids E-6

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 13145

Author : Drapal Stanislav, Horalek Vratislav, Rezny Zdenek
Inst : Not Given
Title : Quantitative Metallographic Grating Analysis

Orig Pub : Hutnické listy, 1957, 12, No 6, 485-491

Abstract : The authors examine the relation between the number of measurements and the degree of accuracy of the result of quantitative metallographic grating analysis. Comparison of the experimental data with calculations shows that the deduction of the mathematical statistics of the method of random points is applicable to the grating method.

Card : 1/1

CZECHOSLOVAKIA/Solid State Physics - General.

E

Abs Jour : Ref Zhur Fizika, No 9, 1959, 20171

Author : Horalek, Vratislav

Inst :

Title : On the Problem of Investigation of the Structure of Material.

Orig Pub : Aplikace mat., 1958, 3, No 5, 376-383

Abstract : A solution is given for the problem, of great significance in the physics of metal, of the relation between the average amount λ of cross sections of grains per unit area in the plane of the polysection and the average x of the grains per unit volume of the specimen. Assuming the distribution of the diameter of spherical grains, which are located at random in the specimen, is

Card 1/2

- 32 -

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618120015-7"

CZECHOSLOVAKIA/Solid State Physics - General

Abs Jour : Ref Zhur Fizika, No 9, 1959, 20171

$$f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(\lg x - \lg \mu)^2}{2\sigma^2}}, \quad x > 0,$$

where μ and σ^2 are the distribution parameters, the author obtains

$$x = \frac{\lambda}{e^{1/2\sigma^2}},$$

Card 2/2

BORALEK, V.

Theoretical solution of certain problems about grainy materials. p. 174

MATEMATICKO-FYZIKALNY CASOPIS. (Slovenska akademia vied)
Bratislava Czechoslovakia

Vol. 8, no. 3, 1958

Monthly list of East European Accessions (EEAI) LC. VOL. 9, no. 1 January 1960

Uncl.

Hukatko, V.

Distr: 4E2c

A new method for metallographic determination of the cross-section-value distribution of globular grains and of their number in the space of metallic specimens. Stanislav Lív Drápal and Vratislav Horký. Matiční číslo 13, 1961.

LB
11 A relation was derived between the spatial cross-section distribution of the grains and that of the cross sections of lines of intersection of the grains in the plane of a metallographic specimen. A relation was also derived between the no. of grains in a vol. unit and that of lines of intersection of the grains in the corresponding unit surface of the plane of metallographic specimen. A math. model designed on the basis of the following suppositions was used: the grains are of globular form, they are distributed accidentally in the space of the specimen, and the cross-section value distribution follows the logarithmic-normal law. They examined experimentally the validity of suppositions applied on a specimen of eutectoid steel, the structure of which consisted in globular cementite grains stored in ferritic base matter. Fett Schindler

DRAPAL, Stanislav, Ing. (Opletalova 25, Praha 2); HORALEK, Vratislav, Ing.,
(Kladenska 60, Praha 6)

Some relations between parameters of structure in the plane of
metallographic specimen surface and in the space of metal specimens.
Acta techn Cz 4 no.6:474-494 '59 (JIAI 9:1)
(Metals)

HORALKOVA, E.

Notes on the effect of the size of some construction elements in hydrocyclones on
the quality of the separation process.

p. 324 (Rudy) Vol. 5, no. 9, Sept. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN, 1958